## INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2005/003113	
A. CLASSIFICATION OF SUBJECT MATTER Int.Cl <sup>7</sup> C22B1/248			
According to International Patent Classification (IPC) or to bo	oth national classification and IPC	,	
B. FIELDS SEARCHED			
Minimum documentation searched (classification system follo Int.Cl <sup>7</sup> C22B1/00-1/26	owed by classification symbols)		
Documentation searched other than minimum documentation to Jitsuyo Shinan Koho 1922-199 Kokai Jitsuyo Shinan Koho 1971-200	96 Toroku Jitsuyo Sh 05 Jitsuyo Shinan To	inan Koho 1994-2005 roku Koho 1996-2005	
Electronic data base consulted during the international search	(name of data base and, where pr	acticable, search terms used)	
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category* Citation of document, with indication,		• •	
Y US 2002/0152843 A1 (Mas 24 October, 2002 (24.10 Claims & JP 2002-194449 A & JP 2002-121625 A	.02), & JP 2002-146445	A	
Y WO 2003/064709 A1 (Koyo 07 August, 2003 (07.08.0 Claims & JP 2003-221625 A	o Seiko Co., Ltd.), 03),	1-13	
Y US 2003/0075014 A1 (Mas 24 April, 2003 (24.04.03 Claims & JP 2002-180108 A	3),		
X Further documents are listed in the continuation of Box 0	C. See patent fami	ly annex.	
Special categories of cited documents:  To document defining the general state of the art which is not considered to be of particular relevance  To document defining the general state of the art which is not considered to be of particular relevance  To document defining the general state of the art which is not considered to be of particular relevance  To document defining the application but cited to the principle or theory underlying the invention  To document of particular relevance; the claimed invention  To document of particular relevance; the claimed invention  To document defining the general state of the art which is not considered to be of particular relevance; the claimed invention		flict with the application but cited to understand ory underlying the invention	
"L" document which may throw doubts on priority claim(s) or wh cited to establish the publication date of another citation or ot	considered novel tich is step when the docu	or cannot be considered to involve an inventive ment is taken alone ular relevance; the claimed invention cannot be	
special reason (as specified)  O' document referring to an oral disclosure, use, exhibition or other document published prior to the international filing date but later priority date claimed	means considered to invector than the considered to invector than the considered to invector to invector than the considered t	olve an inventive step when the document is or more other such documents, such combination person skilled in the art of the same patent family	
Date of the actual completion of the international search 14 March, 2005 (14.03.05)		international search report 2005 (29.03.05)	
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer	· · · · · · · · · · · · · · · · · · ·	
Facsimile No. form PCT/ISA/210 (second sheet) (January 2004)	Telephone No.		

## INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2	005/003113
C (Continuation	). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.
Y	JP 1-108321 A (Daido Steel Co., Ltd.), 25 April, 1989 (25.04.89), Claims; page 2, lower left column (Family: none)		1-13
Y	JP 2001-089818 A (Musashi Seimitsu Kogyo Kabushiki Kaisha), 03 April, 2001 (03.04.01), Claims; Par. Nos. [0002], [0012], [0015] (Family: none)		2,9,10
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